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NATIONAL COMMUNICABLE DISEASE CENTER

Morbidity and Mortality

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WEEKLY REPORT

Week Ending November 16, 1968

U.S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE PUBLIC HEALTH SERVICE

HEALTH SERVICES AND MENTAL HEALTH ADMINISTRATION

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EPIDEMIOLOGIC NOTES AND REPORTS

INFLUENZA — United States

The first documented outbreak of influenza A2, Hong Kong '68 in a civilian population in the United States recently occurred in Needles, California. The outbreak involved 300 to 500 of the town's 5,000 residents, and extended over a 6-week period with the peak incidence occurring in the week of October 28-November 3. The clinical syndrome consisted of sore throat, fever, profound malaise, myalgia, and cervical adenopathy, and the illness lasted for approximately 1 to 2 weeks. Attack rates were highest in the high school population with absenteeism rates as high as 10 to 20 percent. Students in the junior high and grade schools appeared to be unaffected.

Laboratory confirmation of the outbreak included 24 convalescent sera which showed a hemagglutination-inhibition (HI) titer to A2 Hong Kong 68 influenza of greater than 1:32 in 17 specimens and a complement fixation (CF) titer to influenza A of greater than 1:32 in 13 specimens. A viral isolate with hemadsorbing properties

(Continued on page 426)

TABLE I. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES

(Cumulative totals include revised and delayed reports through previous weeks)

DISEASE	46th WEEK ENDED		MEDIAN	CUMULATIVE, FIRST 46 WEEKS		
	November 16, 1968	November 18, 1967	1963 - 1967	1968	1967	MEDIAN 1963 - 1967
Aseptic meningitis	78	63	44	3,974	2,740	1,914
Brucellosis	3	8	6	199	224	224
Diphtheria	2	13	5	194	153	172
Encephalitis, primary:						
Arthropod-borne & unspecified	21	18	- - -	1,261	1,451	- - -
Encephalitis, post-infectious	10	9	- - -	432	699	- - -
Hepatitis, serum	78	51	754	4,037	1,969	33,705
Hepatitis, infectious	899	894		40,168	34,147	
Malaria	69	60	4	2,108	1,860	94
Measles (rubeola)	215	310	1,539	20,989	60,202	249,331
Meningococcal infections, total	19	38	46	2,273	1,928	2,454
Civilian	19	37	- - -	2,085	1,806	- - -
Military	—	1	- - -	188	122	- - -
Mumps	1,777	- - -	- - -	135,846	- - -	- - -
Poliomyelitis, total	1	2	2	54	38	90
Paralytic	1	—	1	54	29	84
Rubella (German measles)	319	307	- - -	46,406	42,122	- - -
Streptococcal sore throat & scarlet fever	8,863	8,668	7,333	372,317	393,232	346,917
Tetanus	1	4	5	151	198	245
Tularemia	1	4	4	160	154	228
Typhoid fever	6	7	7	351	371	394
Typhus, tick-borne (Rky. Mt. spotted fever)	1	—	1	270	293	243
Rabies in animals	41	70	72	3,017	3,815	3,815

TABLE II. NOTIFIABLE DISEASES OF LOW FREQUENCY

	Cum.		Cum.
Anthrax:	3	Rabies in man:	1
Botulism:	7	Rubella, Congenital Syndrome:	5
Leptospirosis:* Calif.-1	46	Trichinosis:	55
Plague:	3	Typhus, murine: La.-1	30
Psittacosis:	40		

*Delayed reports: Leptospirosis: Hawaii 2

INFLUENZA – *(Continued from front page)*

of A2 influenza was isolated from the throat washing of one patient. Further studies to identify this virus are in progress.

Other reports of influenza activity have been received from New Jersey, Colorado, Utah, Alaska, and Illinois. In New Jersey, during the week ending November 16, an outbreak of influenza-like disease occurred in a hospital for mentally retarded individuals. Symptoms consisted of fever, cough, and coryza, and lasted for approximately 3 days. A significant difference in CF titer on a series of unpaired acute and convalescent specimens indicated influenza A infection. HI titers on these specimens provided evidence of A2 influenza infection. An isolate was obtained, and has been characterized as an A2/Hong Kong/68-like virus.

In Colorado, reported influenza-like illnesses increased from 62 cases for the week ending November 2 to 670 and 656 reported cases for the weeks ending November 9 and 16, respectively. Absenteeism rates in industries doubled in the past 2 weeks, and absenteeism rates and febrile respiratory illnesses increased in several colleges. A Denver hospital suspended all routine operations last week because of an influenza-like disease in the nursing staff.

Laboratory confirmation of influenza activity in Colorado includes a CF titer rise to influenza A from less than 1:8 to greater than 1:256 on acute and convalescent sera on two college students, and an HI titer rise to A2, Hong Kong/68 influenza from 1:20 to greater than 1:640. In addition, five viral isolates, identified as A2, Hong Kong/68-like strains, were isolated from patients in a children's hospital for asthmatics in Denver.

In Salt Lake City, Utah, A2 Hong Kong/68-like virus was isolated from a man who had onset of an influenza-like illness on November 2, the day he returned from California. Epidemiologic investigation of this case revealed secondary spread to his wife on November 9 and to a second person on November 5 who had been at a church meeting on November 3 attended by the index case. Six other persons who worked with this second person subsequently developed an influenza-like illness and five relatives of these six cases then developed an influenza-like disease. Serologic studies on these patients are pending.

Although there had been no observed increase in absenteeism rates in schools or industries under active surveillance in Anchorage, Alaska, four isolates of A2/Hong Kong/68-like virus were obtained from patients with influenza. Seven other Alaskan communities have reported clinical evidence of influenza. These outbreaks are predominantly involving adults 20 years of age or older.

In Illinois, an influenza A2, Hong Kong/68-like virus was isolated from a student with influenza at a university student health center. Although the husband and children of the student developed similar illnesses, no other cases have been reported from the university.

(Reported by Dr. Louis F. Saylor, Director of Public Health Dr. Philip K. Condit, Chief, Bureau of Communicable Diseases, and Dr. James Chin, Epidemiologist, California State Department of Public Health; Dr. Ronald Altman, Acting Director, Division of Preventable Diseases, New Jersey State Department of Health; Dr. C. S. Mollohan, Chief, Section of Epidemiology, Colorado State Department of Public Health, Dr. Jerry J. Eller, Chief, Virology Section, US Army Medical Research and Nutrition Laboratory, Fitzsimmon General Hospital, Denver, and Dr. Elliot Ellis, Chief, Pediatrics Service, a hospital, Denver; Dr. Robert W. Sherwood, Director, Preventive Medicine, Utah Department of Health and Welfare; Elmer Feltz, Chief, Virology Unit, Arctic Health Research Laboratory, Fairbanks, and Donald K. Freedman, Director, Division of Public Health, Alaska Department of Health and Welfare; Dr. Norman J. Rose, Chief, Bureau of Epidemiology, and Richard A. Morrissey, Chief, Division of Laboratories, Illinois Department of Public Health; Respiratory Virus Infections Unit, Laboratory Program, NCDC; and EIS Officers.)

CURRENT TRENDS
INFECTIOUS SYPHILIS

National case reporting of newly acquired syphilis (primary and secondary stages) began in 1941. After 1941, case totals increased annually to an all-time peak of 110,932 cases in 1946 (Table 1). Large decreases were reported annually by all states after 1946, and in 1956, a low point of 6,392 reported primary and secondary cases was reached, a reduction of 94 percent from the 1946 total.

In 1957, however, a small increase in the national syphilis morbidity occurred, followed in succeeding years by increases of increasing magnitude. In 1960, this increase over the previous year was 65 percent. After 1960, cases increased at a decreasing rate and reached a peak of 23,338 cases in 1965.

In 1966 and again in 1967, a decrease in cases occurred, and for 1968, a decrease of 8.3 percent is projected on the basis of reported cases through October (Table 2). The national decline in reported cases has not been paralleled in some reporting areas; 12 areas reported more cases during January-October 1968 than during January-October 1965, a period in which cases for the total United States declined 16.9 percent (Table 3). Over

Table 1
Reported Cases of Primary and Secondary Syphilis
United States,* 1946-1968**

Year	Cases	Year	Cases	Year	Cases
1946	110,932	1954	7,147	1962	21,067
1947	93,545	1955	6,454	1963	22,251
1948	68,174	1956	6,392	1964	22,969
1949	41,942	1957	6,576	1965	23,338
1950	23,939	1958	7,176	1966	21,414
1951	14,485	1959	9,799	1967	21,053
1952	10,449	1960	16,145	1968**	19,312
1953	8,637	1961	19,851		

*Includes Alaska beginning in 1959; includes Hawaii beginning in 1960.
**1968 estimated from January-October.

half of the total increase in cases reported by these 12 areas occurred in Texas, with Indiana, Louisiana, and the District of Columbia accounting for most of the remaining increase. The increase in eight states was not significant. *(Reported by the Venereal Disease Program, NCDC.)*

Table 3
12 Areas Reporting More Cases During January-October 1968 than During January-October 1965

Area	January-October Cases		
	1965	1968	Increase
Texas	1,129	2,038	909
Indiana	47	293	246
Louisiana	584	717	133
District of Columbia	418	523	105
New Mexico	95	132	37
Maryland	390	402	12
Oregon	33	39	6
Rhode Island	18	23	5
Maine	2	5	3
North Dakota	2	5	3
Iowa	35	37	2
Kansas	25	26	1
Total	2,778	4,240	1,462

Table 2
Summary of Reported Cases of Infectious Syphilis

CASES OF PRIMARY AND SECONDARY SYPHILIS: By Reporting Areas October 1968 and October 1967 - Provisional Data

Reporting Area	October		Cumulative Jan. - Oct.		Reporting Area	October		Cumulative Jan. - Oct.	
	1968	1967	1968	1967		1968	1967	1968	1967
NEW ENGLAND	29	34	285	291	EAST SOUTH CENTRAL	89	138	1,136	1,486
Maine	-	4	5	6	Kentucky	11	17	101	142
New Hampshire	4	2	4	9	Tennessee	17	31	269	252
Vermont	-	-	-	3	Alabama	33	76	477	784
Massachusetts	22	23	185	167	Mississippi	28	14	289	308
Rhode Island	-	1	23	27					
Connecticut	3	4	68	79	WEST SOUTH CENTRAL	325	351	2,930	2,682
					Arkansas	5	21	106	110
MIDDLE ATLANTIC	368	289	2,885	2,998	Louisiana	74	71	717	549
Upstate New York	56	32	269	257	Oklahoma	10	7	69	95
New York City	252	150	1,848	1,778	Texas	236	252	2,038	1,928
Pa. (Excl. Phila.)	13	32	188	207					
Philadelphia	16	30	205	270	MOUNTAIN	36	58	402	502
New Jersey	31	45	375	486	Montana	-	1	5	5
					Idaho	-	-	2	16
EAST NORTH CENTRAL	260	297	2,399	2,672	Wyoming	2	1	3	13
Ohio	36	47	383	516	Colorado	2	3	17	55
Indiana	34	29	293	146	New Mexico	10	21	132	157
Downstate Illinois	36	4	182	121	Arizona	20	27	200	229
Chicago	88	79	841	807	Utah	-	-	8	7
Michigan	65	135	676	1,060	Nevada	2	5	35	20
Wisconsin	1	3	24	22					
					PACIFIC	210	134	1,546	1,505
WEST NORTH CENTRAL	41	45	327	293	Washington	4	8	39	50
Minnesota	6	8	44	45	Oregon	9	2	39	40
Iowa	6	6	37	37	California	197	123	1,460	1,405
Missouri	20	18	166	96	Alaska	-	1	2	3
North Dakota	-	-	5	3	Hawaii	-	-	6	7
South Dakota	-	4	30	31					
Nebraska	3	3	19	34	U. S. TOTAL	1,760	1,844	16,235	17,697
Kansas	6	6	26	47					
					TERRITORIES	107	84	956	768
SOUTH ATLANTIC	402	498	4,325	5,268	Puerto Rico	100	82	910	736
Delaware	5	10	32	60	Virgin Islands	7	2	46	32
Maryland	36	54	402	535					
District of Columbia	61	85	523	661					
Virginia	25	24	261	258					
West Virginia	1	4	29	20					
North Carolina	28	61	494	655					
South Carolina	48	57	443	684					
Georgia	87	73	759	821					
Florida	111	130	1,382	1,574					

Note: Cumulative Totals include revised and delayed reports through previous months.

INTERNATIONAL NOTES
TYPHOID FEVER – Cuba

An outbreak of typhoid fever occurred in eastern Cuba during August and September 1968. In the week ending August 24, 92 confirmed cases were recorded and in the following 5 weeks approximately 67 cases per week were reported. The outbreak had subsided by the week

(Continued on page 432)

TABLE III. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES

FOR WEEKS ENDED
NOVEMBER 16, 1968 AND NOVEMBER 18, 1967 (46th WEEK)

AREA	ASEPTIC MENINGITIS		BRUCELLOSIS	DIPHTHERIA	ENCEPHALITIS			HEPATITIS			MALARIA
					Primary including unsp. cases		Post-Infectious	Serum	Infectious		
	1968	1967	1968	1968	1968	1967	1968	1968	1968	1967	1968
UNITED STATES...	78	63	3	2	21	18	10	78	899	894	69
NEW ENGLAND.....	-	-	-	-	2	2	-	2	49	45	3
Maine.*.....	-	-	-	-	-	-	-	-	5	4	-
New Hampshire.....	-	-	-	-	-	-	-	-	5	-	-
Vermont.....	-	-	-	-	-	-	-	-	-	1	-
Massachusetts.....	-	-	-	-	-	-	-	-	23	10	3
Rhode Island.....	-	-	-	-	2	2	-	-	11	3	-
Connecticut.....	-	-	-	-	-	-	-	2	5	27	-
MIDDLE ATLANTIC.....	21	9	1	-	1	2	3	21	144	187	12
New York City.....	6	6	-	-	1	2	-	11	24	40	-
New York, up-State.	2	-	1	-	-	-	3	2	10	26	1
New Jersey.....	4	1	-	-	-	-	-	4	35	81	-
Pennsylvania.....	9	2	-	-	-	-	-	4	75	40	11
EAST NORTH CENTRAL...	10	14	-	-	7	7	1	5	153	142	3
Ohio.....	5	4	-	-	3	7	-	1	30	34	-
Indiana.....	1	4	-	-	1	-	-	-	12	5	1
Illinois.....	-	4	-	-	1	-	1	3	36	58	1
Michigan.....	4	2	-	-	2	-	-	1	65	33	1
Wisconsin.....	-	-	-	-	-	-	-	-	10	12	-
WEST NORTH CENTRAL...	6	-	-	-	-	3	-	2	61	51	3
Minnesota.....	6	-	-	-	-	-	-	1	7	15	-
Iowa.*.....	-	-	-	-	-	2	-	-	6	10	1
Missouri.....	-	-	-	-	-	-	-	1	25	18	-
North Dakota.....	-	-	-	-	-	-	-	-	1	2	-
South Dakota.....	-	-	-	-	-	-	-	-	1	-	-
Nebraska.....	-	-	-	-	-	-	-	-	3	3	1
Kansas.....	-	-	-	-	-	1	-	-	18	3	1
SOUTH ATLANTIC.....	8	6	-	-	4	1	1	2	94	89	30
Delaware.....	-	-	-	-	-	-	-	-	-	2	-
Maryland.....	1	5	-	-	1	-	-	-	13	9	-
Dist. of Columbia..	-	-	-	-	-	-	-	-	-	-	-
Virginia.....	1	1	-	-	3	1	-	2	42	4	4
West Virginia.....	2	-	-	-	-	-	-	-	8	16	1
North Carolina.....	1	-	-	-	-	-	-	-	6	5	11
South Carolina.....	-	-	-	-	-	-	-	-	5	1	1
Georgia.....	-	-	-	-	-	-	-	-	-	41	13
Florida.....	3	-	-	-	-	-	1	-	20	11	-
EAST SOUTH CENTRAL...	3	5	-	-	-	1	-	1	53	76	1
Kentucky.....	-	-	-	-	-	-	-	-	19	52	-
Tennessee.....	-	1	-	-	-	1	-	-	25	11	-
Alabama.....	2	4	-	-	-	-	-	1	6	7	1
Mississippi.....	1	-	-	-	-	-	-	-	3	6	-
WEST SOUTH CENTRAL...	4	5	1	2	1	-	-	3	60	71	1
Arkansas*.....	-	-	1	-	-	-	-	-	2	1	-
Louisiana.....	2	1	-	2	1	-	-	2	11	9	1
Oklahoma.....	-	2	-	-	-	-	-	-	11	3	-
Texas.....	2	2	-	-	-	-	-	1	36	58	-
MOUNTAIN.....	-	1	-	-	-	-	1	1	38	24	4
Montana.....	-	-	-	-	-	-	-	-	3	4	-
Idaho.....	-	-	-	-	-	-	-	-	3	-	2
Wyoming.....	-	-	-	-	-	-	-	-	-	-	-
Colorado.....	-	-	-	-	-	-	-	1	9	11	2
New Mexico.....	-	-	-	-	-	-	1	-	5	4	-
Arizona.....	-	-	-	-	-	-	-	-	16	4	-
Utah.....	-	1	-	-	-	-	-	-	2	1	-
Nevada.....	-	-	-	-	-	-	-	-	-	-	-
PACIFIC.....	26	23	1	-	6	2	4	41	247	209	12
Washington.....	4	1	-	-	2	-	-	1	50	10	-
Oregon.....	1	-	-	-	-	-	-	5	14	16	2
California.....	21	18	1	-	4	-	4	35	181	180	6
Alaska.....	-	-	-	-	-	-	-	-	2	-	-
Hawaii*.....	-	4	-	-	-	2	-	-	-	3	4
Puerto Rico.....	---	-	---	---	---	-	---	---	---	23	---

*Delayed reports: Aseptic meningitis: Hawaii 1
Encephalitis, primary: Hawaii 1
Encephalitis, post-infectious: Iowa 1
Hepatitis, infectious: Me. 5, Ark. 2, Hawaii 9
Malaria: Hawaii 2

TABLE III. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES

FOR WEEKS ENDED

NOVEMBER 16, 1968 AND NOVEMBER 18, 1967 (46th WEEK) - CONTINUED

AREA	MEASLES (Rubeola)			MENINGOCOCCAL INFECTIONS, TOTAL			MUMPS	POLIOMYELITIS			RUBELLA
		Cumulative			Cumulative			Total	Paralytic		
	1968	1968	1967	1968	1968	1967	1968	1968	1968	Cum. 1968	1968
UNITED STATES...	215	20,989	60,202	19	2,273	1,928	1,777	1	1	54	319
NEW ENGLAND.....	25	1,213	909	1	133	76	214	-	-	1	29
Maine..*.....	-	38	261	-	6	3	7	-	-	-	1
New Hampshire.....	-	141	77	-	7	3	16	-	-	-	-
Vermont.....	-	2	34	-	1	1	26	-	-	-	1
Massachusetts.*....	5	378	380	1	70	36	108	-	-	1	12
Rhode Island.....	16	22	62	-	9	4	20	-	-	-	3
Connecticut.....	4	632	95	-	40	29	37	-	-	-	12
MIDDLE ATLANTIC.....	46	4,380	2,424	4	408	317	82	-	-	1	29
New York City.....	21	2,292	491	3	84	56	33	-	-	-	11
New York, Up-State.	3	1,278	614	-	72	79	NN	-	-	1	7
New Jersey.....	2	671	554	-	140	103	49	-	-	-	4
Pennsylvania.....	20	139	765	1	112	79	NN	-	-	-	7
EAST NORTH CENTRAL...	24	4,014	5,879	2	282	267	489	1	1	8	76
Ohio.....	1	313	1,172	-	77	90	34	-	-	2	11
Indiana.....	3	702	626	1	39	31	35	1	1	2	9
Illinois.....	5	1,399	1,091	-	63	61	69	-	-	2	11
Michigan.....	6	307	986	1	83	66	163	-	-	2	20
Wisconsin.....	9	1,293	2,004	-	20	19	188	-	-	-	25
WEST NORTH CENTRAL...	2	401	2,930	2	125	93	333	-	-	3	30
Minnesota.*.....	-	18	135	-	29	21	1	-	-	-	-
Iowa.....	-	104	771	2	10	19	254	-	-	1	27
Missouri.....	-	81	339	-	40	18	5	-	-	2	-
North Dakota.....	-	138	878	-	4	3	61	-	-	-	3
South Dakota.....	-	4	58	-	5	7	NN	-	-	-	-
Nebraska.....	2	46	655	-	9	15	10	-	-	-	-
Kansas.....	-	10	94	-	28	10	2	-	-	-	-
SOUTH ATLANTIC.....	13	1,580	7,160	4	451	370	140	-	-	3	30
Delaware.....	1	17	50	-	9	7	1	-	-	-	3
Maryland.....	-	103	172	1	40	53	6	-	-	-	-
Dist. of Columbia..	-	6	24	-	16	14	-	-	-	1	-
Virginia.....	4	319	2,239	1	44	43	17	-	-	-	13
West Virginia.....	2	310	1,456	-	13	35	74	-	-	1	6
North Carolina.....	-	284	917	1	86	73	NN	-	-	1	-
South Carolina.....	3	15	512	-	58	30	12	-	-	-	1
Georgia.....	-	4	39	1	90	56	-	-	-	-	-
Florida.*.....	3	522	1,751	-	95	59	30	-	-	-	7
EAST SOUTH CENTRAL...	1	502	5,432	2	204	153	73	-	-	1	14
Kentucky.....	-	103	1,419	1	93	45	39	-	-	1	3
Tennessee.....	1	63	1,991	1	61	65	34	-	-	-	9
Alabama.....	-	95	1,348	-	27	29	-	-	-	-	1
Mississippi.....	-	241	674	-	23	14	-	-	-	-	1
WEST SOUTH CENTRAL...	68	5,105	17,907	-	326	243	146	-	-	24	22
Arkansas.....	-	2	1,404	-	20	36	-	-	-	1	-
Louisiana.....	-	24	156	-	93	95	1	-	-	-	-
Oklahoma.....	3	128	3,359	-	52	18	23	-	-	2	1
Texas.....	65	4,951	12,988	-	161	94	122	-	-	21	21
MOUNTAIN.....	9	1,042	4,822	-	39	39	123	-	-	1	38
Montana.....	-	58	326	-	6	5	21	-	-	-	7
Idaho.....	-	21	395	-	11	3	7	-	-	-	1
Wyoming.....	-	54	193	-	3	1	-	-	-	-	-
Colorado.....	-	518	1,609	-	11	13	31	-	-	-	13
New Mexico.....	5	135	604	-	-	5	23	-	-	-	-
Arizona.....	4	230	1,043	-	4	5	18	-	-	1	12
Utah.....	-	21	383	-	1	4	23	-	-	-	5
Nevada.....	-	5	269	-	3	3	-	-	-	-	-
PACIFIC.....	27	2,752	12,739	4	305	370	177	-	-	12	51
Washington.....	2	581	5,590	-	47	36	108	-	-	1	15
Oregon..*.....	11	564	1,685	1	24	30	25	-	-	-	6
California.....	14	1,561	5,142	3	217	289	28	-	-	11	25
Alaska.....	-	11	140	-	3	11	16	-	-	-	1
Hawaii..*.....	-	35	182	-	14	4	-	-	-	-	4
Puerto Rico.....	---	466	2,226	---	20	14	---	---	---	-	---

*Delayed reports: Measles: Mass. delete 1, Minn. 1, Fla. delete 4, Ore. delete 1
Meningococcal infections: Hawaii 1
Mumps: Hawaii 7
Rubella: Me. 2, Fla. 4, Ore. 1, Hawaii 2

TABLE III. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES
FOR WEEKS ENDED
NOVEMBER 16, 1968 AND NOVEMBER 18, 1967 (46th WEEK) - CONTINUED

AREA	STREPTOCOCCAL SORE THROAT & SCARLET FEVER	TETANUS		TULAREMIA		TYPHOID		TYPHUS FEVER TICK-BORNE (Rky. Mt. Spotted)		RABIES IN ANIMALS	
	1968	1968	Cum. 1968	1968	Cum. 1968	1968	Cum. 1968	1968	Cum. 1968	1968	Cum. 1968
UNITED STATES...	8,863	1	151	1	160	6	351	1	270	41	3,017
NEW ENGLAND.....	977	-	4	-	47	-	12	-	1	1	73
Maine.*	20	-	-	-	-	-	2	-	-	1	54
New Hampshire.....	5	-	1	-	-	-	1	-	-	-	2
Vermont.....	16	-	-	-	47	-	-	-	-	-	11
Massachusetts.....	125	-	1	-	-	-	6	-	1	-	5
Rhode Island.....	91	-	-	-	-	-	-	-	-	-	-
Connecticut.....	720	-	2	-	-	-	3	-	-	-	1
MIDDLE ATLANTIC.....	132	-	19	-	7	-	32	-	22	-	49
New York City.....	6	-	11	-	-	-	15	-	-	-	-
New York, Up-State.	110	-	4	-	7	-	8	-	5	-	40
New Jersey.....	NN	-	1	-	-	-	4	-	7	-	-
Pennsylvania.....	16	-	3	-	-	-	5	-	10	-	9
EAST NORTH CENTRAL...	527	1	16	-	11	-	47	-	9	-	272
Ohio.....	46	-	2	-	1	-	19	-	7	-	91
Indiana.....	60	-	2	-	1	-	7	-	-	-	88
Illinois.....	113	1	8	-	8	-	19	-	2	-	38
Michigan.....	202	-	3	-	1	-	-	-	-	-	14
Wisconsin.....	106	-	1	-	-	-	2	-	-	-	41
WEST NORTH CENTRAL...	552	-	15	-	15	1	38	-	9	10	744
Minnesota.....	59	-	2	-	-	-	2	-	-	4	233
Iowa.....	130	-	4	-	-	-	2	-	1	1	118
Missouri.....	4	-	5	-	7	-	26	-	3	3	108
North Dakota.....	135	-	-	-	-	-	-	-	-	2	118
South Dakota.....	17	-	1	-	3	-	2	-	4	-	97
Nebraska.....	177	-	3	-	-	-	3	-	1	-	26
Kansas.....	30	-	-	-	5	1	3	-	-	-	44
SOUTH ATLANTIC.....	1,119	-	32	-	12	1	61	-	141	9	366
Delaware.....	6	-	-	-	-	-	-	-	-	-	1
Maryland.....	148	-	3	-	-	-	9	-	18	-	6
Dist. of Columbia.*	1	-	2	-	-	-	1	-	-	-	1
Virginia.....	478	-	4	-	3	-	10	-	44	2	126
West Virginia.....	191	-	2	-	-	-	-	-	2	1	48
North Carolina.....	18	-	2	-	3	-	4	-	39	-	12
South Carolina.....	132	-	4	-	-	-	3	-	9	-	-
Georgia.....	11	-	3	-	4	-	15	-	26	3	73
Florida.....	134	-	12	-	2	1	19	-	3	3	99
EAST SOUTH CENTRAL...	1,442	-	15	-	8	2	42	1	53	9	648
Kentucky.....	236	-	1	-	1	-	9	-	10	6	338
Tennessee.....	998	-	6	-	5	1	18	1	37	3	278
Alabama.....	136	-	5	-	-	-	2	-	4	-	25
Mississippi.....	72	-	3	-	2	1	13	-	2	-	7
WEST SOUTH CENTRAL...	749	-	29	-	47	2	50	-	29	6	465
Arkansas.....	27	-	5	-	15	1	18	-	6	-	61
Louisiana.....	13	-	10	-	7	-	6	-	1	1	45
Oklahoma.....	54	-	-	-	9	1	15	-	13	1	119
Texas.....	655	-	14	-	16	-	11	-	9	4	240
MOUNTAIN.....	2,022	-	1	1	9	-	16	-	5	1	84
Montana.....	39	-	-	-	-	-	-	-	-	-	-
Idaho.....	88	-	-	-	-	-	-	-	1	-	-
Wyoming.*	426	-	-	-	1	-	1	-	-	-	3
Colorado.....	1,051	-	-	-	3	-	2	-	4	-	4
New Mexico.....	177	-	-	-	-	-	8	-	-	1	36
Arizona.....	88	-	1	-	-	-	4	-	-	-	37
Utah.....	153	-	-	1	5	-	-	-	-	-	1
Nevada.....	-	-	-	-	-	-	1	-	-	-	3
PACIFIC.....	1,343	-	20	-	4	-	53	-	1	5	316
Washington.....	485	-	1	-	-	-	2	-	-	-	2
Oregon.....	95	-	1	-	1	-	5	-	-	-	6
California.....	645	-	18	-	3	-	46	-	1	5	308
Alaska.....	20	-	-	-	-	-	-	-	-	-	-
Hawaii.*	98	-	-	-	-	-	-	-	-	-	-
Puerto Rico.....	---	---	12	---	-	---	4	---	-	---	19

*Delayed reports: SST: Me. 4, D.C. 41, Wyo. 322, Hawaii 133

Week No. 46

TABLE IV. DEATHS IN 122 UNITED STATES CITIES FOR WEEK ENDED NOVEMBER 16, 1968

(By place of occurrence and week of filing certificate. Excludes fetal deaths)

Area	All Causes		Pneumonia and Influenza All Ages	Under 1 year All Causes
	All Ages	65 years and over		
NEW ENGLAND:	737	432	35	33
Boston, Mass.	245	134	9	6
Bridgeport, Conn.	38	24	5	3
Cambridge, Mass.	33	18	-	1
Fall River, Mass.	34	21	1	2
Hartford, Conn.	66	40	-	4
Lowell, Mass.	19	8	-	-
Lynn, Mass.	26	15	-	-
New Bedford, Mass.	22	16	2	1
New Haven, Conn.	46	26	-	4
Providence, R. I.	69	40	3	6
Somerville, Mass.	11	7	-	-
Springfield, Mass.	51	33	7	1
Waterbury, Conn.	26	14	-	3
Worcester, Mass.	51	36	8	2
MIDDLE ATLANTIC:	3,407	1,976	112	152
Albany, N. Y.	52	29	-	1
Allentown, Pa.	51	33	3	2
Buffalo, N. Y.	141	75	3	8
Camden, N. J.	42	17	3	5
Elizabeth, N. J.	42	27	2	-
Erie, Pa.	34	25	1	-
Jersey City, N. J.	75	45	4	3
Newark, N. J.	77	39	6	5
New York City, N. Y.	1,701	966	42	73
Paterson, N. J.	31	17	2	4
Philadelphia, Pa.	500	299	5	23
Pittsburgh, Pa.	187	98	11	12
Reading, Pa.	69	44	4	-
Rochester, N. Y.	146	99	9	7
Schenectady, N. Y.	28	19	-	1
Scranton, Pa.	32	22	5	1
Syracuse, N. Y.	84	52	2	3
Trenton, N. J.	34	19	3	2
Utica, N. Y.	43	29	4	1
Yonkers, N. Y.	38	22	3	1
EAST NORTH CENTRAL:	2,654	1,469	86	149
Akron, Ohio	54	27	-	4
Canton, Ohio	33	17	2	2
Chicago, Ill.	776	410	24	45
Cincinnati, Ohio	133	79	1	6
Cleveland, Ohio	176	94	2	6
Columbus, Ohio	134	73	9	13
Dayton, Ohio	73	29	2	5
Detroit, Mich.	465	256	11	23
Evansville, Ind.	36	21	5	1
Flint, Mich.	53	25	2	7
Fort Wayne, Ind.	34	18	1	4
Gary, Ind.	31	17	1	1
Grand Rapids, Mich.	52	37	5	2
Indianapolis, Ind.	166	93	2	10
Madison, Wis.	28	16	1	2
Milwaukee, Wis.	131	80	5	7
Peoria, Ill.	49	27	-	4
Rockford, Ill.	38	24	6	1
South Bend, Ind.	36	24	1	-
Toledo, Ohio	89	53	6	4
Youngstown, Ohio	67	49	-	2
WEST NORTH CENTRAL:	849	505	28	33
Des Moines, Iowa	64	36	1	2
Duluth, Minn.	27	17	-	1
Kansas City, Kans.	42	24	-	4
Kansas City, Mo.	172	111	6	4
Lincoln, Nebr.	23	19	3	-
Minneapolis, Minn.	109	59	1	7
Omaha, Nebr.	69	46	1	2
St. Louis, Mo.	208	114	5	9
St. Paul, Minn.	64	38	5	2
Wichita, Kans.	71	41	6	2
SOUTH ATLANTIC:	1,114	558	50	51
Atlanta, Ga.	123	45	-	5
Baltimore, Md.	245	119	6	10
Charlotte, N. C.	43	20	2	3
Jacksonville, Fla.	93	43	6	5
Miami, Fla.	83	41	-	4
Norfolk, Va.	34	16	3	-
Richmond, Va.	80	47	7	3
Savannah, Ga.	29	20	2	1
St. Petersburg, Fla.	76	60	5	2
Tampa, Fla.	73	38	7	3
Washington, D. C.	187	87	9	13
Wilmington, Del.	48	84	3	2
EAST SOUTH CENTRAL:	632	336	34	39
Birmingham, Ala.	79	43	1	3
Chattanooga, Tenn.	52	34	4	2
Knoxville, Tenn.	40	25	2	1
Louisville, Ky.	119	69	12	9
Memphis, Tenn.	136	64	5	10
Mobile, Ala.	61	20	2	4
Montgomery, Ala.	35	27	3	-
Nashville, Tenn.	110	54	5	10
WEST SOUTH CENTRAL:	1,149	598	40	78
Austin, Tex.	37	19	4	2
Baton Rouge, La.	41	16	1	2
Corpus Christi, Tex.	24	12	1	1
Dallas, Tex.	140	68	1	14
El Paso, Tex.	40	25	5	3
Fort Worth, Tex.	90	54	4	7
Houston, Tex.	237	109	5	15
Little Rock, Ark.	75	46	2	4
New Orleans, La.	162	95	5	5
Oklahoma City, Okla.	78	37	1	4
San Antonio, Tex.	129	66	3	10
Shreveport, La.	37	21	4	6
Tulsa, Okla.	59	30	4	5
MOUNTAIN:	515	293	20	27
Albuquerque, N. Mex.	56	28	4	2
Colorado Springs, Colo.	30	15	1	-
Denver, Colo.	151	82	6	8
Ogden, Utah	31	19	4	3
Phoenix, Ariz.	110	68	1	5
Pueblo, Colo.	13	7	1	-
Salt Lake City, Utah	53	35	2	5
Tucson, Ariz.	71	39	1	4
PACIFIC:	1,666	1,006	33	64
Berkeley, Calif.	18	16	-	-
Fresno, Calif.	33	16	-	3
Glendale, Calif.	28	16	-	-
Honolulu, Hawaii	42	28	-	4
Long Beach, Calif.	116	75	5	2
Los Angeles, Calif.	493	296	10	24
Oakland, Calif.	88	53	3	3
Pasadena, Calif.	50	29	-	2
Portland, Oreg.	143	88	2	4
Sacramento, Calif.	58	30	-	4
San Diego, Calif.	96	55	2	1
San Francisco, Calif.	176	110	4	2
San Jose, Calif.	36	22	1	2
Seattle, Wash.	191	110	5	7
Spokane, Wash.	51	33	-	4
Tacoma, Wash.	47	29	1	2
Total	12,723	7,173	438	626

Cumulative Totals
including reported corrections for previous weeks

All Causes, All Ages	583,266
All Causes, Age 65 and over	335,073
Pneumonia and Influenza, All Ages	23,010
All Causes, Under 1 Year of Age	27,615

TYPHOID FEVER – *(Continued from page 427)*

ending October 5 when only two cases were reported.[1] Most of the cases were in the cities of Bayamo and Holquin in Oriente Province (Figure 1). A physician, who had worked in two hospitals in Bayamo for 2 years prior to his arrival on October 8, 1968, in Miami, Florida, reported that the source of the epidemic was a contaminated town water supply. He reported that during the epidemic, about 90 percent of the approximately 123,000 residents in Bayamo had been immunized against typhoid fever.

Figure 1
PROVINCE IN CUBA EXPERIENCING TYPHOID FEVER EPIDEMIC

Since approximately 900 Cuban refugees enter the United States each week, during the epidemic, the following control measures were established at the Cuban Refugee Emergency Center (CREC) in Miami: (1) a rectal swab culture was performed for each refugee arriving from Oriente Province; (2) typhoid vaccine was administered to these refugees; (3) the refugee was asked to report immediately to a physician if he became ill; and (4) the health department at the refugee's destination was notified that the person was from an area experiencing an epidemic of typhoid fever and of the medical treatment administered at the CREC. In addition, personnel at the CREC were given typhoid boosters.

As of October 10, all 600 rectal swab cultures performed at the CREC were negative for *Salmonella typhi* and no cases of typhoid fever had occurred among the refugees or their contacts within the United States. On October 15, because no cases had occurred and because arriving refugees no longer reported the epidemic, the control measures at the CREC were lifted.

(Reported by Dr. Jock McKenzie, Director, and Dr. Antonio Togle, Assistant Director, Medical Services, Cuban Refugee Emergency Center, Miami; Dr. William R. Stinger, Acting-Director, Dr. Milton S. Soslaw, Assistant County Health Director, Disease Control, and Dr. Myriam A. Bosch, Epidemiologist, Dade County Department of Public Health; Dr. E. Chorlton Prather, Director, Division of Epidemiology, and Mr. Robert A. Groves, Director, Miami Regional Laboratory, Florida State Board of Health; Medical Officer, Foreign Quarantine Program, NCDC, assigned to the Cuban Refugee Program; and an EIS Officer.)

Reference:

[1] Pan American Sanitary Bureau Regional Office of the World Health Organization: *Weekly Epidemiological Report*. 40(46):260.

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ATLANTA, GEORGIA 30333
ATTN: THE EDITOR
MORBIDITY AND MORTALITY WEEKLY REPORT

NOTE: THE DATA IN THIS REPORT ARE PROVISIONAL AND ARE BASED ON WEEKLY TELEGRAMS TO THE NCDC BY THE INDIVIDUAL STATE HEALTH DEPARTMENTS. THE REPORTING WEEK CONCLUDES ON SATURDAY; COMPILED DATA ON A NATIONAL BASIS ARE RELEASED ON THE SUCCEEDING FRIDAY.

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